PATENT ABSTRACTS OF JAPAN

(11) Publication number: 2005046141 A

(43) Date of publication of application: 24.02.05

	(1-)	
(51) Int. CI	C12P 17/00	
	A61P 1/00	
	A61P 1/16	
	A61P 3/10	
	A61P 7/00	
	A61P 7/06	
	A61P 9/10	
	A61P 9/12	
	A61P 11/00	
	A61P 11/06	
	A61P 13/12	
	A61P 17/00	
	A61P 19/02	
	A61P 21/00	
	A61P 25/00	
	A61P 27/02	
	A61P 29/00	
	A61P 37/02	
	A61P 37/08	
	// A61K 31/665	
	A61K 31/67	
	A61K 31/675	
	(C12P 17/00 , C12R 1:65), (C12P	
	17/00 , C12R 1:785)	

(21) Application number: 2004203737

(22) Date of filing: 09.07.04

(30) Priority: 11.07.03 JP 2003195422

(71) Applicant: SANKYO CO LTD

(72) Inventor: NISHI TAKEHIDE ONUKI TAKASHI

MORIGUCHI TAKU

(54) METHOD FOR PRODUCING PHOSPHORIC ACID ESTER

(57) Abstract:

PROBLEM TO BE SOLVED: To make it possible to simply producing a phosphoric acid ester of an aminoalcohol derivative having immunosuppressive activity.

SOLUTION: The subject method for producing the phosphoric acid ester comprises acting a microorganism of the genera Circinella, Absidia, or the like, on a compound expressed by formula (I) and recovering the phosphoric acid ester of the compound.

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$$\begin{array}{c|c} R^3 & R^5 R^6 \\ \hline + (CH_2)_n & \nearrow - \nwarrow \\ NR^1 R^2 & X \end{array} Y - Z - R^4$$